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Leslie Heppler <lheppler@utah.gov>**Draft Comments - 30% Design Submittals M/035/0009**

1 message

**E-MAILED**

10/27/2015

Leslie Heppler <lheppler@utah.gov>

Tue, Oct 27, 2015 at 8:35 AM

To: "Schnoor, Steve (RTKC)" <Steve.Schnoor@riotinto.com>

Cc: "Nannini, Tom (RTKC)" <tom.nannini@riotinto.com>, Woodrow Campbell <WWCAMPBELL@utah.gov>, Brian Hamos <bhamos@utah.gov>, Douglas Bacon <DBACON@utah.gov>, Paul Baker <paulbaker@utah.gov>, Mike Bradley <mbradley@utah.gov>, April Abate <APRILABATE@utah.gov>, Peter Brinton <peterbrinton@utah.gov>

The attached review is a **draft** copy of the OGM review of your latest submittal. The edited copy of the review will be finalized, signed and sent out as soon as possible. Certain portions of the review are incomplete at this time, due to either lack of information, incomplete information, or inconsistent data in the NOI.

The following areas of the permit have not been reviewed at this time:

- Groundwater
- Deleterious Material

All of the above sections will be reviewed in your finalized, signed review.

It is the goal of OGM to send out the most thorough and detailed review possible as per R647-4-101. 1.

If you have any further questions please don't hesitate to call me at [801-538-5257](tel:801-538-5257) thx-lah

—
Utah Division of Oil, Gas & Mining

Office hours - Mon thru Fri 8-5

[\(801\) 538-5340](tel:8015385340)

Leslie Heppler

lheppler@utah.govDirect line [\(801\) 538-5257](tel:8015385257) (Mon -Thur)

Thank you for reading this electronic correspondence.

Please consider the environment before printing.

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E-MAILED

Oct 27, 2015

September 30, 2015

Steve Schnoor
Kennecott Utah Copper LLC
4700 Daybreak Parkway
South Jordan, Utah 84095

Subject: Review of Notice of Intention to Commence Large Mining Operations, Kennecott Barneys Canyon Mining Company, Barneys Canyon Mine, M/035/0009, Salt Lake County, Utah

Dear Mr. Schnoor:

The Division has completed a review of two submittals, one which was received September 23, 2015, the other submittal was received on October 8, 2015. The attached comments will need to be addressed before tentative acceptance maybe granted.

After the notice is determined technically complete, we will ask that you send us two clean copies of the complete and corrected plan. Upon final approval, we will return one copy stamped "accepted" for your records.

The Division has the following general comments:

- Please resubmit the "Request for Approval to Construct" from DEQ after their requested changes have been made and the document is finalized with DEQ. The Division will then place the completed Construction drawings in the Appendix of the OGM Notice of Intention.
- The Division may have additional comments based on the review responses.

The Division will suspend further review of the Notice of Intention until your response to this letter is received. If you have any questions in this regard please contact me at 801-538-5261 or Leslie Hepler, at 801-538-5257. Thank you for your cooperation in completing this permitting action.

Sincerely,

Paul B. Baker
Minerals Program Manager

PBB:lah:eb

Attachment: Review

cc: WWCampbell@utah.gov BHamos@utah.gov DBacon@utah.gov

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Oct 27, 2015


REVIEW of Submittals Kennecott Barneys Canyon Mining Company Barneys Canyon Mine

M/035/0009
09/30/2015

General Comments:

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
1	Cover ltr Page 2	2 nd bullet – It is not known what compactive effort is going into buttress fill. Is it as per embankment, if so refer to specification, ie “as per specification 02056” which includes density and moisture or include language such as, buttress material will be placed as embankment. If this is the intent then fill needs to be included “buttress fill as per plans” - modify Spec 02056 under 1.1 A. and cover letter.	lah	
2	Cover ltr Page 2 Bullet 5	Typo 2.5:1, should be 2.5H:1V.	lah	
3	Cover ltr Page 2 last para	As written, “...average depth of approx 1meter.” Rewrite to “...average depth of approx 1meter and a minimum thickness of 0.* meter.” Include English units in parens as per 1 st bullet on page 2 of the cover letter.	lah	
4	Figure G-02,03	Figure is difficult to read, please gray out major contours or increase line thickness on new construction.	lah	
5	Figure G-02	(Stamped drawings only) Add olive green color to legend.	lah	
6	Figures G-02,03	Fence line is shown open in SE corner of project.	lah	
7	Figure G-02	Either on Figure G-02 or in text or refer to SWPPP note or show if any new sediment traps will be constructed.	lah	
8	All GR*.*	On all profile all plan, profile, section and cross section views include the H:V on all slope call outs.	lah	
9	GR3-02	Remove the north arrow and scale bar, as they don't apply to the profile and section.	lah	
10	BC-0*	Include the H:V on all slope call outs.	lah	
11	Figures RC	Where are the drawings for the other borrow areas? 02,07, 09, 01A & 01B.	lah	
12	Figures BT-all	At what stage of construction will the guardrail (shown on DT-01) be removed? What specification applies? Will the guardrail be disposed of offsite? This also applies to the notes on the fencing.	lah	
13	Figure BT1-01	As per note 6. It is difficult to see location of check dam on the sheet as is noted. This applies to all BT*-01 sheets.	lah	
14	Figure BT1-02	More detail is needed on Borrow area 08 and the liner, such as purpose and need.	lah	
15	BT1-03	More detail is needed what is below HDPE liner. This applies to all BT*-03 sheets	lah	
16	BT5-02	Fine grained material is shown on typical as being open ended, should show keying into leach pad on the right side, also check dam is shown on plan view 02, but is not included in legend.	lah	
17	DT-01	It is not clear where Typical 01 and 02 are in relationship to the plan se.t	lah	
17	DT-02	Check dam should have some sort of weir or depression in the middle to act as a weir to minimize erosion at the edges.	lah	

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18	DT- all	Buttress is shown as “clean fill” in the legend, but on details it is also called “buttress”. Terms should be consistent.	lah	
19	Specs	Specifications should be labeled as either Special Provisions, Modifications or Standards.	lah	
20	Spec 01455	Add Utah Administrative Code under 1.3, as OGM is noted under 1.9D.2.	lah	
21	Spec 01571 Sec. 1.4 Definitions	Please include definitions for “stilling basin” and “detention pond.” Definitions should describe the intended function of each. These terms are often confused with “retention basin,” “settling pond,” and other similar terminology.	mpb	
22	Spec 02056	Under section Part1, 1.1 A add “buttress” if that is the intent of the operator. In addition delete bridge approach embankments if there is no bridges, or perhaps change to “structures”, if that is the intent of the operator.	lah	
23	Spec 02075	Under either 1.2 or 1.3 the State Department of Environmental Quality (DEQ) Regulations should either be related or referenced. In addition under section 3.8 E. Acceptance of the liner should include the appropriate text relating to the of the liner acceptance by DEQ 3.8 E.	lah	
24	Spec 02075	3.1.A – What is placed below the geotextile? This also applies to 3.5 A.a., as written “the subgrade prepared...according to specification – where is the subgrade specification?	lah	
25	Omission	Earthmoving equipment should be washed prior to accessing the site, ie weed free, perhaps include under Mob 01285, Environmental 01355, Embankment 02056, or Topsoil 02912.	lah	
		There may also be track-out facilities needed for vehicles leaving the site and accessing paved roads.	mpb	
26	Spec 02231	1.4 B - The definition of “deleterious” needs to be refined further.	lah	
27	Numerous	On most, if not all, double-sided figures, the back side is upside down.	mpb	
28	SWPPP diagrams	Please identify the blue (wet) areas in the legend/key. Use terms to be consistent with above comment on Spec 01571 definitions, and label these features as such.	mpb	
29	Figures BC-01 through 05	Whereas the rest of the diagrams are plan or section/profiles, please identify on these sheets that these are oblique views. Also identify what direction the oblique is viewing toward, i.e., “Oblique view to the NW” or provide a numeric bearing like “Oblique view bearing 315°.” The downward angle of the oblique is not necessary.	mpb	
30	Figures	On some figures, the “detention” structures are called “basins” while on others they are called “ponds.” Please be consistent and coordinate with the request for these to be defined in the previous Specs 01571 comment.	mpb	
31	Figures GR#-01	For the 60% spec package, please include hydrologic work-up calculations and include storage volumes for the storm water catchments shown on these diagrams.	mpb	
32	Work Plan 5-2B	What are the thallium values east of the sulphide stockpile, in the floatation plant area.	lah	